

Title (en)
Integrated circuit comprising a network of protection diodes

Title (de)
Schutzdiodennetz bildende integrierte Schaltung

Title (fr)
Circuit intégré constituant un réseau de diodes de protection

Publication
EP 0562982 B1 19970212 (FR)

Application
EP 93420128 A 19930323

Priority
FR 9204130 A 19920326

Abstract (en)
[origin: EP0562982A1] The present invention relates to an integrated circuit comprising a network of diodes, including first Schottky diodes, each one of which is connected by its cathode to a point to be protected and by its anode to a reference voltage, and second Schottky diodes, each one of which is connected by its anode to a point to be protected and by its cathode to the cathode of an avalanche diode whose anode is at the reference voltage. This integrated circuit comprises, in a P-type substrate (1), a first (10) and a second (20) group of N-type wells; a resistive (ohmic) contact (12, 22) and a Schottky contact (11, 21) on each well; an N-type region (3) on the upper surface of the substrate; a metallization (A) connecting the resistive contacts of the first group of wells to the N-type region; a metallization (C) connecting the Schottky contacts of the second wells; metallizations (B1-B8) respectively connecting a Schottky contact of the second group of wells to a resistive contact of the first wells; and a rear face metallization (M). <IMAGE>

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